NAME OF WORK : Construction Of Synthetic Tennis Court,Street Vending Zone & Other Developmental Works At Judicial Layout Main And Cross Roads, Chikkabommasandra, Someshwara Nagar,Allalasandra Village & Surrounding Areas In Ward No-04 Of Yelahanka Division Under Amruth Nagarothan Grants. (Package No-06)

Quality Control Reports

First and Part Bill

(Book No.01)

QC ABSTRACT

NAME OF WORK: Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Coarse aggregate(12 5 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
5	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
6		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1

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7	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
9	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
10	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
11	PCC(M15)	Compressive Strength(7days and 28days)	6 set /100-150 cum	146.84	12	12
12	RCC(M20)	Compressive Strength(7days and 28days)	15 set /1000-1200 cum	1120.86	30	30
13	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3.86	2	2
14	RCC(M25)	Compressive Strength(7days and 28days)	2 set /6-15 cum	10.74	4	4
15	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.53	2	2
16	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
17	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-23-01** **Date: 26-09-22**
Project Name	:	Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants (Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	23-09-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-09-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5433	5678	37.9	62.1	30-70
4	10 mm	4331	10009	66.7	33.3	10-35
5	4.75 mm	4657	14666	97.8	2.2	0-5
6	Pan	334	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-23-01** **Date: 26-09-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-23-01** **Date: 26-09-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK D/EPMT-06/W O/35/2022-23
Date of Receipt	:	23-09-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-09-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-09-23-01** **Date: 26-09-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	23-09-22
Sample Type	:	Fine Aggregate (M-Sand)
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	23-09-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-09-23-01** **Date: 24-09-22**
Project Name	:	Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	23-09-22
Sample Type	:	A - One Gold
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test:	:	23-09-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	A - One Gold	Fe550	8	0.391	572	689	20.0%	Satisfactory	Satisfactory
2	A - One Gold	Fe550	10	0.616	578	690	20.0%	Satisfactory	Satisfactory
3	A - One Gold	Fe550	12	0.888	583	701	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-28-01 Date: 25/10/2022

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 28-09-22

Customer ID : Drain Bottom Raft- 1st A Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 25/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-1st A Main Road	M20	27/09/2022	25/10/2022	149.19 X 149.52 X 151.91	22306	8.868	522.9	23.4	23.0
2	Drain Bottom Raft-1st A Main Road	M20	27/09/2022	25/10/2022	150.53 X 150.19 X 150.73	22609	8.480	497.7	22.0	
3	Drain Bottom Raft-1st A Main Road	M20	27/09/2022	25/10/2022	150.39 X 151.09 X 151.33	22722	8.297	534.5	23.5	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : CP-2022-09-29-01 **Date: 30-09-22**

Project Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)

Agency : M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 29-09-22

Sample Type : A - One Gold

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 29-09-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	A - One Gold	Fe550	8	0.385	556	654	20.0%	Satisfactory	Satisfactory
2	A - One Gold	Fe550	10	0.623	562	673	20.0%	Satisfactory	Satisfactory
3	A - One Gold	Fe550	12	0.875	575	682	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-29-01** **Date: 28-10-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No 1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-06/W O/35/2022-23
Date of Receipt	:	29-09-22
Sample Type	:	Sagar 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	30-09-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-30-01** **Date: 03-10-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No 1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	30-09-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-09-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	285	285	5.7	94.3	90-100
3	10 mm	2836	3121	62.4	37.6	25-55
4	4.75 mm	1685	4806	96.1	3.9	0-10
5	Pan	194	5000	100	0	–

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-03-01 **Date: 10/10/2022**

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 03-10-22

Customer ID : Drain Side Wall- 13th Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-13th Main Road	M20	02/10/2022	09/10/2022	151.87 X 150.74 X 151.11	22893	9.064	414.9	18.1	18.4
2	Drain Side Wall-13th Main Road	M20	02/10/2022	09/10/2022	149.97 X 149.86 X 150.15	22476	9.056	407.2	18.1	
3	Drain Side Wall-13th Main Road	M20	02/10/2022	09/10/2022	151.26 X 149.68 X 150.25	22641	8.504	429.1	19.0	

• The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಜ ಜ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-106

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-06-01

Date: 10/10/2022

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 06-10-22

Customer ID : Drain Side Wall- 1st Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall- 1st Cross Road	M20	03/10/2022	10/10/2022	151.62 X 150.38 X 150.90	22802	8.634	416.9	18.3	18.5
2	Drain Side Wall- 1st Cross Road	M20	03/10/2022	10/10/2022	150.61 X 150.28 X 150.67	22633	8.878	424.8	18.8	
3	Drain Side Wall- 1st Cross Road	M20	03/10/2022	10/10/2022	151.95 X 149.77 X 149.43	22759	8.983	417.3	18.3	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-07-01

Date: 03/11/2022

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 07-10-22

Customer ID : Drain Side wall- 21st cross road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side wall- 21st cross road	M20	06/10/2022	03/11/2022	150.28 X 150.90 X 149.50	22677	8.941	536.2	23.6	23.3
2	Drain Side wall- 21st cross road	M20	06/10/2022	03/11/2022	151.79 X 150.80 X 150.37	22890	8.903	523.7	22.9	
3	Drain Side wall- 21st cross road	M20	06/10/2022	03/11/2022	150.98 X 149.74 X 151.16	22608	8.986	526.3	23.3	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/11/2022

Lab ID	:	CP-2022-10-14-01
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	14-10-22
Customer ID	:	Drain Side Wall- 1st A Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall- 1st A Main Road	M20	13/10/2022	10/11/2022	149.95 X 151.23 X 149.23	22677	8.458	485.3	21.4	21.8
2	Drain Side Wall- 1st A Main Road	M20	13/10/2022	10/11/2022	149.51 X 151.25 X 151.35	22613	8.973	510.1	22.6	
3	Drain Side Wall- 1st A Main Road	M20	13/10/2022	10/11/2022	149.62 X 151.20 X 151.26	22623	8.865	488.2	21.6	

• The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/10/2022

Lab ID	:	CP-2022-10-15-01
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	15-10-22
Customer ID	:	Drain Side Wall-13th Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-13th Main Road	M20	14/10/2022	21/10/2022	151.66 X 151.53 X 149.88	22980	8.843	417.8	18.2	18.3
2	Drain Side Wall-13th Main Road	M20	14/10/2022	21/10/2022	150.84 X 150.07 X 150.90	22637	9.058	411.0	18.2	
3	Drain Side Wall-13th Main Road	M20	14/10/2022	21/10/2022	149.14 X 149.06 X 149.39	22231	8.158	410.5	18.5	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/10/2022

Lab ID	:	CP-2022-10-18-01
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	18-10-22
Customer ID	:	Drain Bottom Raft - 15th Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/10/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - 15th Main Road	M20	17/10/2022	24/10/2022	149.86 X 151.63 X 149.06	22723	8.367	428.1	18.8	18.7
2	Drain Bottom Raft - 15th Main Road	M20	17/10/2022	24/10/2022	149.94 X 150.32 X 150.36	22539	8.989	421.1	18.7	
3	Drain Bottom Raft - 15th Main Road	M20	17/10/2022	24/10/2022	150.50 X 149.63 X 149.06	22519	8.864	420.8	18.7	

• The results obtained are satisfactory as per standard requirements.

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Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 21-10-22

Lab ID	:	CP-2022-09-27-01
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No.1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	EE/DD/W.O/84/2021-22
Date of Receipt	:	17-10-22
Sample Type /Size	:	Precast Cover Slab(230mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	17/10/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.02	100.01	1.988	7856	168.5	21.4	19.9	24.9
2	Cover Slab-2	100.03	100.02	1.945	7857	169.8	21.6	20.1	25.1
3	Cover Slab-3	100.01	100.03	1.963	7854	166.1	21.1	19.7	24.6

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig. Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/11/2022

Lab ID	:	**CP-2022-11-02-01**
Project Name	:	Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	02-11-22
Customer ID	:	Coping Concrete Allalasandra 1:2:4 Main Road Judicial Layout
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete Allalasandra 1:2:4 Main Road Judicial Layout	M15	01/11/2022	08/11/2022	150.58 X 150.50 X 149.94	22663	8.937	286.3	12.6	11.8
2	Coping Concrete Allalasandra 1:2:4 Main Road Judicial Layout	M15	01/11/2022	08/11/2022	149.21 X 149.14 X 149.91	22253	8.614	250.4	11.3	
3	Coping Concrete Allalasandra 1:2:4 Main Road Judicial Layout	M15	01/11/2022	08/11/2022	149.03 X 149.87 X 150.07	22335	8.823	258.5	11.6	

• The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/11/2022

Lab ID	:	**CP-2022-11-03-01**
Project Name	:	Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	03-11-22
Customer ID	:	Kerb PCC Judicial Layout 21st Cross & 13th Main Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kerb PCC Judicial Layout 21st Cross & 13th Main Road	M15	02/11/2022	09/11/2022	149.86 X 150.93 X 150.99	22618	8.107	292.3	12.9	11.9
2	Kerb PCC Judicial Layout 21st Cross & 13th Main Road	M15	02/11/2022	09/11/2022	149.95 X 152.00 X 150.48	22791	8.919	263.6	11.6	
3	Kerb PCC Judicial Layout 21st Cross & 13th Main Road	M15	02/11/2022	09/11/2022	150.35 X 149.50 X 151.41	22477	8.654	249.7	11.1	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-10-17-01 **Date: 20-10-22**
Project Name	:	Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W O/35/2022-23
Date of Receipt	:	17-10-22
Sample Type	:	Sagar 53grade
Source of Sample	:	Judicial Layout Play Ground
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-10-22
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.12	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-10-17-01**
Project Name	:	**Date: 15-11-22** Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	17-10-22
Sample Type	:	Sagar 53grade
Source of Sample	:	Judicial Layout Play Ground
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	18-10-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-10-17-01 **Date: 19-10-22**

Project Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants (Package No-06)

Agency : M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 17-10-22

Sample Type : Fine Aggregate

Source of Sample : Judicial Layout Play Ground

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-10-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2022-09-29-01

Date: 18-10-22

Project Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)

Agency : M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 17-10-22

Sample Type : A - One Gold

Source of Sample : Judicial Layout Play Ground

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 17-10-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	A - One Gold	Fe550	8	0.383	562	658	21.0%	Satisfactory	Satisfactory
2	A - One Gold	Fe550	10	0.624	578	662	20.0%	Satisfactory	Satisfactory
3	A - One Gold	Fe550	12	0.872	583	592	20.0%	Satisfactory	Satisfactory
4	A - One Gold	Fe550	16	1.582	588	708	20.0%	Satisfactory	Satisfactory

• The results obtained are satisfactory as per standard requirements.

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2022-11-15-01
Project Name	:	Date: 19-11-22 Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	15-11-22
Sample Type	:	Plaster Sand
Source of Sample	:	Judicial Layout Play Ground
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	12	12	1.2	98.8	95-100
3	2.36 mm	25	37	3.7	96.3	95-100
4	1.18 mm	52	89	8.9	91.1	90-100
5	600 micron	98	187	18.7	81.3	80-100
6	300 micron	372	559	55.9	44.1	20-65
7	150 micron	327	886	88.6	11.4	0-15
8	Pan	114	1000	100	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-11-15-01**

Date: 19-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.72	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	9.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-31-01

Date: 05/11/2022

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No.1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 31-10-22

Customer ID : Judicial Layout Play Ground Sump Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Judicial Layout Play Ground Sump Bottom Raft	M25	29/10/2022	05/11/2022	149.93 X 149.22 X 150.27	22371	8.641	526.0	23.5	23.0
2	Judicial Layout Play Ground Sump Bottom Raft	M25	29/10/2022	05/11/2022	150.70 X 150.88 X 149.93	22738	8.454	514.6	22.6	
3	Judicial Layout Play Ground Sump Bottom Raft	M25	29/10/2022	05/11/2022	149.28 X 149.74 X 151.39	22352	8.275	508.1	22.7	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-10-31-01

Date: 26/11/2022

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 31-10-22

Customer ID : Judicial Layout Play Ground Sump Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 26/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Judicial Layout Play Ground Sump Bottom Raft	M25	29/10/2022	26/11/2022	151.58 X 150.45 X 149.72	22804	8.911	626.0	27.4	27.3
2	Judicial Layout Play Ground Sump Bottom Raft	M25	29/10/2022	26/11/2022	150.34 X 150.97 X 150.03	22696	8.856	598.1	26.4	
3	Judicial Layout Play Ground Sump Bottom Raft	M25	29/10/2022	26/11/2022	149.62 X 151.96 X 151.89	22736	8.959	637.6	28.0	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-11-08-01** **Date: 10-11-22**
Project Name	:	Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	08-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Source of Sample	:	Senior citizen Building
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	-

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-11-08-01**

Date: 10-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : CP-2022-09-29-01

Date: 09-11-22

Project Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)

Agency : M/s SMLP Asphalts (Prop B B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 08-11-22

Sample Type : A - One Gold

Source of Sample : Senior citizen Building

Reference to BIS codes : IS 1786-2008, IS.1608-2005(RA 2011), IS 1599-2019

Date of test: : 08-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	A - One Gold	Fe550	8	0.391	562	652	20.0%	Satisfactory	Satisfactory
2	A - One Gold	Fe550	10	0.616	578	672	20.0%	Satisfactory	Satisfactory
3	A - One Gold	Fe550	12	0.887	574	668	20.0%	Satisfactory	Satisfactory
4	A - One Gold	Fe550	16	1.580	598	708	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-23-01** **Date: 11-11-22**
Project Name	:	Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)
Agency	:	M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	08-11-22
Sample Type	:	40mm down size coarse aggregate
Source of Sample	:	Senior citizen Building
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	5437	5679	37.9	62.1	30-70
4	10 mm	4339	10018	66.8	33.2	10-35
5	4.75 mm	4649	14667	97.8	2.2	0-5
6	Pan	333	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-23-01** **Date: 11-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/11/2022

Lab ID	:	CP-2022-11-17-01
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	17-11-22
Customer ID	:	Senior Citizen Building Footing
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Senior Citizen Building Footing	M25	16/11/2022	23/11/2022	149.77 X 150.09 X 150.89	22478	8.927	526.3	23.4	22.8
2	Senior Citizen Building Footing	M25	16/11/2022	23/11/2022	151.30 X 151.02 X 149.45	22850	8.546	506.2	22.2	
3	Senior Citizen Building Footing	M25	16/11/2022	23/11/2022	149.30 X 149.86 X 150.69	22375	8.712	512.4	22.9	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-11-20-01

Date: 26/11/2022

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 20-11-22

Customer ID : Senior Citizen Building Column

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Senior Citizen Building Column	M25	19/11/2022	26/11/2022	149.31 X 151.34 X 150.27	22597	8.452	533.1	23.6	23.0
2	Senior Citizen Building Column	M25	19/11/2022	26/11/2022	151.86 X 150.53 X 151.55	22861	9.009	523.0	22.9	
3	Senior Citizen Building Column	M25	19/11/2022	26/11/2022	151.83 X 150.31 X 151.86	22821	8.450	517.4	22.7	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES